

## Notice of Allowability

Application No.

10/707,076

Examiner

Nader Bolourchi

Applicant(s)

COSAND ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/2/2007.
2. ☒ The allowed claim(s) is/are 1-3, 6-13, 15-27, and 32-39, which is renumbered as 1-3, 4-11, 12-24, and 25-32, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 16 November 2007
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
DAVID C. PAYNE  
SUPERVISORY PATENT EXAMINER

## **DETAILED ACTION**

### ***Remarks***

1. Applicant canceling claims 4-5, 14, and 28-31 is acknowledged.
2. Applicant's amendment dated 11/2/2007 is entered.
3. Claim rejections under 35 USC § 112 are withdrawn.
4. Claims rejections under 35 USC § 102 are withdrawn.

### ***Response to Arguments***

5. Applicant's arguments, see Remarks in pages 10-14, filed 11/2/2007, with respect to claims 1-3, 6-13, 15-27, and 32-39 have been fully considered and are persuasive. The rejection of claims 1-3, 6-13, 15-27, and 32-39 has been withdrawn.

### ***Examiner's Amendment***

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
7. Authorization for this examiner's amendment was given in a telephone interview with Ms Evelyn Sommer, Attorney for Applicants, Reg. No. 19,603 on 16 November 2007.

8. Claim 27 is amended as follows:

27. (currently amended) A method of extracting information from pulse-position modulated signals comprising:
- ~~receiving at least one reference clock signal;~~
  - receiving at least one pulse-position modulated signal;
  - recovering said reference clock signal from said at least one pulse-position modulated signal;
  - ~~receiving at least one pulse-position modulated signal;~~
  - receiving at least one reference clock signal;
  - separating ~~[[a]]~~ the reference clock signal into a plurality of clock signals;
  - converting said reference clock signal from a current signal into a first voltage swing signal;
  - converting said at least one pulse-width modulation signal from a current signal into a second voltage swing signal;
  - gating a plurality of time integrators to generate a plurality of time-integrated signals in response to said at least one pulse-position modulated signal and said plurality of clock signals; and
  - generating a demodulated signal from said plurality of time-integrated signals.

***Allowable Subject Matter***

9. Claims 1-3, 6-13, 15-27, and 32-39 are allowed.
10. The following is an examiner's statement of reasons for allowance:

The prior arts of record fail to teach or suggest in combination, the arrangement that **“a data receiver receiving at least one pulse-position modulated signal; a clock circuit separating a reference clock signal into a plurality of coordinating clock signals; a plurality of time integrators gated to generate a plurality of time-integrated signals in response to said at least one pulse-position modulated signal and said plurality of coordinating clock signals; a combiner forming a demodulated signal from said plurality of time-integrated signals;”** in combination with **“a first transimpedance amplifier converting said reference clock signal from being in the form of a current signal into a first voltage swing signal; and a second transimpedance amplifier converting said at least one pulse-position modulated signal from being in the form of a current signal into a second voltage swing signal; wherein said combiner sums at least a portion of said plurality of time-integrated signals to form said demodulated signal,”** in order to form “A COMMUNICATION RECEIVER”, as recited in claim 1, and some variation of wording as recited in claims 23 and 26-27 and 38, and further limitation of their respective dependent claims 2-3, 6-13, 15-22, 24-25, and 32-39, correspondingly.

11. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”


**Contact Information**

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nader Bolourchi whose telephone number is (571) 272-8064. The examiner can normally be reached on M-F 8:30 to 4:30.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

Nader Bolourchi  
NB  
11/21/2007

  
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